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To All To Whom These Presents Shall Come:

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This is to Certify that the annexed is a true copy from the records of this Office of the original, consisting of the Request for Grant of a Philippine Patent Specification & Claims; Abstract and Drawings (if there is any), as originally filed in:

Pending Patent Application of

1804/1536

A5TEK CORPORATION
1398 Borregas Ave.,
Sunnyvale, CA 94089, U.S.A.

Appl. No. : 1-2003-000566

Filed: Dec. 9, 2003

Inventor(s) : Ted Y. Lee

for

Invention: **A METHOD AND A SYSTEM FOR CONROLLING, NAVIGATING AND MANAGING DATA FILES, URLS AND OTHER FILE SYSTEM OBJECTS USING CODE-BASED COMMANDS, IN A COMPUTER SYSTEM OR AN APPLIANCE ENHANCED BY A COMPUTER SYSTEM**



In witness whereof, I
have hereunto affixed my hand
and the seal of the Intellectual
Property Office at Makati City,
Philippines, this 18th day of
March, 2004

EPIFANIO M. EVASCO
Director
Bureau of Patents

Attested:

EVELYN M. MANALAC
BOP, Records Officer III

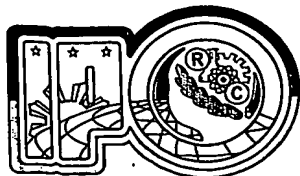
Doc. No.: BOP-058

Series of: 2004

Requested by: Messrs. Ong, Villamor, et al.

**PRIORITY
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REQUEST FOR GRANT OF A PHILIPPINE PATENT

03 DEC -9 P4:34

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THE UNDERSIGNED HEREBY REQUEST GRANT OF A
PHILIPPINE PATENT FOR THE SUBJECT APPLICATION.

(The following is to be filed in by the Intellectual
Property Office)
APPLICATION No.:

1-2003-000566 *pay*

FILING DATE:

Date of Receipt:

December 9, 2003

Box No. I TITLE OF THE INVENTION

A METHOD AND A SYSTEM FOR CONTROLLING, NAVIGATING AND MANAGING DATA FILES, URLS AND
OTHER FILE SYSTEM OBJECTS USING CODE-BASED COMMANDS, IN A COMPUTER SYSTEM OR AN
APPLIANCE ENHANCED BY A COMPUTER SYSTEM

Box No. II APPLICANT (WHETHER OR NOT ALSO INVENTOR). Use this box for indicating the applicant or, if there are
several applicants, one of them. If more than one person (includes, where applicable, a legal entity) is involved, continue in
supplemental box.

The person in this box is (check one only):

☐

applicant and inventor

☒

applicant only

Name and address: A5TEK CORPORATION - 1398 Borregas Ave., Sunnyvale, CA 94089 USA

Telephone number:
(including area code)

Fax Address:

E-Mail address:

Country of nationality: USA

Country of residence: USA

Box No. III INVENTOR/S. A separate sub-box has to be filled in respect of each person. If the following two sub-boxes are
insufficient, continue in the "Supplemental Box." (giving there for each additional person the same indications as those requested in the
following two sub-boxes) or by using a "continuation sheet."

The person in this box is (check one only):

☐

applicant and inventor

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inventor only

Name and address: TED Y. LEE - c/o A5TEK Corporation 1398 Borregas Ave., Sunnyvale CA 94089, USA

If the person identified in this sub-box is applicant (or applicant and inventor), indicate also:

Country of nationality: USA

Country of residence: USA

The person identified in this sub-box is (check one only):

☐

applicant and inventor

☐

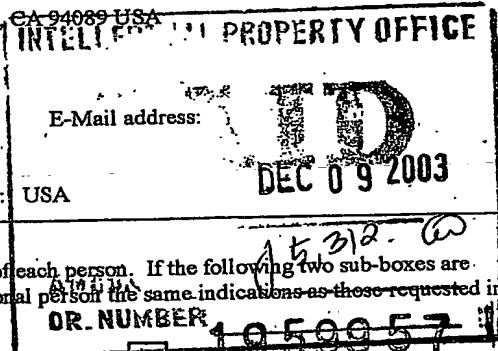
inventor only

Name and address:

If the person identified in this sub-box is applicant (or applicant and inventor), indicate also:

Country of nationality:

Country of residence:



Box No. IV AGENT (IF ANY) OR COMMON REPRESENTATIVE (IF ANY); ADDRESS FOR NOTIFICATIONS (IN CERTAIN CASES) A common representative may be appointed only if there are several applicants and if no agent is or has been appointed: The common representative must be one of the applicants.
The following person (includes, where applicable, a legal entity) is hereby/has been appointed as agent or common representative to act on behalf of the applicant(s) before the Intellectual Property Office.

Name and address, including postal code:

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(including area code)

Box No. V PRIORITY CLAIM (IF ANY). The priority of the following earlier application(s) is hereby claimed:

Country in which it was filed:	Filing Date (month, day, year)	Application No.
(1)		
(2)		
(3)		

Box No. VI SIGNATURE OF APPLICANT(S) OR AGENT OVER PRINTED NAME(S)


Atty. ANA LIZA B. VILLAMOR

If the present Request form is signed on behalf of any applicant by an agent, a separate notarized power of attorney appointing the agent and signed by the applicant is required. If in such case it is desired to make use of a general power of attorney (deposited with the Intellectual Property Office), a copy thereof must be attached to this form.

Box No. VII CHECK LIST (To be filled in by the Applicant)

This application contains the following number of sheets:

1. request	2 sheets
2. description	9 sheets
3. claims	4 sheets
4. abstract	1 sheet
5. drawing(s)	10 sheets
Total	26 sheets

Figure number 1 of the drawings (if any)
is suggested to accompany the abstract for publication.

This application as filed is accompanied by the items checked below

1. ☐ separate notarized power of attorney
2. ☐ copy of general power of attorney
3. ☐ priority document(s) (see Box No. V)
4. ☐ cheques for the payment of fees
5. ☐ Other documents(specify)

ABSTRACT OF THE DISCLOSURE

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The present invention relates to a method and a
system for controlling, navigating and managing data
files, URL's and other file system objects using code-
based commands in a computer system or an appliance
enhanced by a computer system. The method and system
operates under the control of an application system
installed in the computer. Particularly, the computer
system utilizes a Recursive Numbering Menu System that
simplifies and reduces the navigating process to merely
pressing codes, or preferably numbers corresponding to
the files or functions displayed in the menu and
submenu, using a remote control, wireless keyboard or
any device with keypads.

SPECIFICATION

INTELLECTUAL
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5 A METHOD AND A SYSTEM FOR CONTROLLING, NAVIGATING AND
MANAGING DATA FILES, URLS AND OTHER FILE SYSTEM OBJECTS
USING CODE-BASED COMMANDS, IN A COMPUTER SYSTEM OR AN
APPLIANCE ENHANCED BY A COMPUTER SYSTEM. P435 ✓

FIELD OF THE INVENTION

10 The present invention relates in general to a
computer system, but more particularly to a method and a
system for controlling, navigating and managing data
files, URLs and other file system objects using code-
based commands, particularly numbers, which is applicable
15 to computers or computer-enhanced appliances.

BACKGROUND OF THE INVENTION

Heretofore, computer systems utilize the popular
Graphic User Interface (GUI), which uses the point-and-
20 click navigation method and system, operated with the use
of a mouse, trackball or touch pad. This method and
system using these devices is inconvenient to the user
because it requires the user to stay close to the display
monitor when navigating, controlling and managing file
25 system objects. This is not to mention that a keyboard is
necessary to accomplish the same. Thus, information and
applications are not easily accessible and navigated
using the present system. It is also difficult for the
user because it requires a certain amount of skill,
30 effort and time to learn and adapt to their functions and
operations. The present system requires a thorough study
to operate and is not user-friendly. Furthermore, a
dedicated display monitor is required for on-screen
display of the file system objects.

SUMMARY OF THE INVENTION

To overcome the aforesaid drawbacks of the present computer system, the present invention provides for a method and system in a computer system that simplifies the navigation, controlling and managing functions, which effectively makes information and applications easily accessible to users who need not go near to the display monitor to navigate, control and manage the same. The system readily makes data and application available to all (users/consumers) because of its simplified and centralized digital content menu system interface using code-based commands, particularly numbers.

It is, therefore, an object of the present invention to provide such a method and system in a computer system for navigating, controlling and managing data files, URLs and other system file objects, that is easy to access, even from a distance, and intuitive for users of all ages.

More specifically, the object of the present invention is to provide a method and system in a computer system for navigating, controlling and managing data files, URLs and other system file objects, which allow users to simply press the code, symbol or number which corresponds to a function, data file, hyperlink or other system file objects shown in the display monitor.

Another object of the present invention is to provide a method and system in a computer system for navigating, controlling and managing data files, URLs and other system file objects, wherein the main user interface is designed to be built over Microsoft's Internet Explorer or other similar applications as a middleware, which graphic representation is aptly called TV User Interface or "TUI", which makes use of the code,

particularly numbers, to interface with a TV remote control or other devices with number key pads. This lessens the gap between Internet and television and may be considered a serious step towards the latter's full convergence with the former. However, the invention allows interface also with a wireless keyboard dedicated and provided therefore.

Yet, another object of the present invention is to provide for a method and system in a computer system, for navigating, controlling and managing data files, URLs and other system file objects, which can boost, emulate and facilitate the integration of otherwise independent consumer appliances, functioning as an "infotainment" hub and/or internet appliance.

These and other objects and advantages of the present invention will become apparent upon a reading of the ensuing description taken in conjunction with the appended drawings.

BRIEF DESCRIPTION

OF THE DIFFERENT FIGURES OF THE DRAWINGS

Figure 1 is a block diagram showing the computer system of the present invention;

Figure 2a is a perspective view of the wireless keyboard of the computer system of the present invention;

Figure 2b is a perspective view of the remote control of the present invention;

Figure 3a is a screen diagram of the TV User Interface or "TUI" of the present invention which uses rectangular figures to represent each digital file in the file organizer;

Figure 3b is a screen diagram of a third version of the TV User Interface or "TUI" of the present invention

which uses circular figures to represent each digital file in the file organizer;

Figure 3c is a screen diagram of the TV User Interface or "TUI" of the present invention which uses square figures to represent each digital file in the file organizer;

Figures 4 is a screen diagram of a third version of the TV User Interface or "TUI" of the present invention which shows the multimedia key bar (MMK) activated;

10 Figure 5 is a screen diagram of a third version of the TV User Interface or "TUI" of the present invention which shows the top task bar (TTB) activated;

Figure 6 is a screen diagram of the TV User Interface or "TUI" showing the drop down menu or history containing a list of websites visited by user

15 Figure 7 is a screen diagram of a sample web page containing the Recursive Numbering Menu System of the present invention where web navigation is to be carried out;

20

BEST MODE FOR CARRYING OUT THE INVENTION

A computer system using code-based commands, particularly "numbers", for controlling, navigating and managing data files, URLs and other file system objects are provided. Consequently, the present computer system having a user, a digital content menu system, a plurality of file system objects, each file system object having a visual representation, and a method for controlling, managing and navigating the digital contents using number-based commands. Because the objects created according to the present invention are preferably implemented as files, the terms "file" and "object" is used interchangeably herein. It will be understood by one skilled in the art, however, that the present invention

could be straightforwardly applied to objects having various other implementations.

In a preferred embodiment of the present invention as shown in figure 1, the herein proposed computer system 5 10 using code-based commands comprises of a processing equipment 11, a displaying means 12 connected to the processing equipment 11, and interface command means "M" adapted to navigate, control and manage any desired data of file system objects such as, digital files, URL's, 10 hyperlinks and the likes, through and from the processing equipment 11 while shown in an on-screen display in the display means 12 using code-based commands. It is preferred that the code-based commands feature numbers as shown in the screen diagram of the "TUI" and the sample 15 web page, as shown in figures 3a & 6, respectively.

The code-based commands using numbers are specially programmed in navigating, controlling and managing the whole digital content of the herein computer system of the present invention. These commands are carried out 20 using the interface command means "M" which may include a remote control "R" and wireless keyboard "K" as shown in figures 2a and 2b (but other devices with a number key pad may be used). By simply pressing numbers corresponding to a function, data file, hyperlink and 25 other system file objects, users can navigate, control and manage the same with ease. The commands may also be effective by voice of user with the use of a voice-activated means in the processing equipment, in which case, the user simply has to verbalize or articulate the 30 number corresponding to the function, data file, hyperlink and other system file objects.

Applying and using numbers for the code-based commands, users can even do complicated function, such as managing movie and audio files, import and sort photos

from digital cameras and portable storage media. The method involved is easy so users do not need to learn new steps every time they import, export, delete, play, record and bookmark favorite URLs.

5 The processing equipment 11 consists of a main housing 13 connected to a conventional power source (not shown) and a circuit board provided within main housing 13. The circuit board further consists of a computer-based program being integrated and interconnected to the
10 electrical and electronic components thereof. The front panel of the processing equipment 11 has a multiple number of output and input connectors all being interconnected to the circuit board.

 The display means 12, which is connected to the
15 processing equipment 11 is a television (but it also be an LCD screen or computer monitor) which has full convergence with the internet.

 The computer-based program which is loaded and integrated into the processing equipment 11 installs a
20 centralized digital content menu system interface, which is graphically represented in the TV User Interface or "TUI", which works using code-based commands consisting of codes with reference to file system objects (digital files, URLs, hyperlinks, etc.) stored in current and
25 specified locations on said processing equipment 11. Moreover, the computer-based program is also capable of commanding the file system objects from the processing equipment and displaying on the screen of the display means 12 the desired file system objects. This is easily
30 achieved by using the interface command means "M" with either the remote control "R", the wireless keyboard "K" or other devices with keypads.

 When the system is turned on, the display means 12 which is connected to the processing equipment 11 will

immediately show the "TUI." "TUI" primarily functions as a portal containing the pre-selected digital files shown in the file organizer area 14a of the "TUI," each file corresponding to a particular number. The file organizer
5 comprises several digital pages grouped into menu and sub-menu. For instance, the file organizer contains the following in the main menu: TV, IPRADIO, MUSIC, PHOTO, MOVIE, GAME, TELCOM, NEWS, SHOPPING, EDUCATION, FINANCE, SPORTS, HEALTH, APPLICATION, WWW, WINDOWS, SEARCH ENGINE,
10 etc. While, the following are contained in the sub-menu, "TV": iTV, CABLE, DVD and DTV. And, then lastly, the following are contained in the second sub-menu, "CABLE:" LAST CHANNEL, CLOSED CAPTION, TELETEXT, CAPTURE STILL IMAGE, CHANNEL SURF, GUIDE and RECORD ORGANIZER.

15 Beside the file organizer area 14a is a video area 14b and an information area 14c. The video area shows a preview of the files selected while the information area shows the detailed specifications of the said file. On the top portion of the "TUI" is a menu bar area ^{14c}14d. By
20 pressing the pound sign "#," the multi media key bar (MMK) 14d will appear as shown in Figure 4, while pressing on the asterisk sign "*", the top task bar (TTB) 14e will appear as shown in Figure 5.

As shown in Figure 4, the different components and
25 features of multimedia key bar (MMK) 14d are as follows: ?????? Help Icon 16 is used to view on-line help on the current open application. Window display icon 17 is used to maximize the current window. Previous icon 18 is used to view previous chapter/TV channel windows, while
30 reversed icon 19 is used to view or rewind the current video picture or audio files. The record icon 20, play icon 21 and stop icon 22, records, starts or halts video/audio files, TV programs and the player activity. The pause icon 23 is used to freeze the current

video/audio files. And the forward and next icons 24 and 25 are used to view advanced video files or listen to the advance track in audio files and view the next chapter/TV window, respectively.

5 As shown in figure 5, the different components and features of the top task bar (TTB) 15 are as follows: when the backward icon 26, which corresponds to number "1", is activated, the current application is left running in minimized window while at the same time going
10 back to the previous application; While activating the forward icon 27, which corresponds to number "2", will end the current application and proceed to the next one; When the closed icon 28, which corresponds to number "3", is activated, it terminates the current applications
15 while allowing other active applications to maximize; the home icon 29, which corresponds to number "4", will automatically lead the active application to the Main Menu (or HOME page) of the computer system; the favorite icon 30, which corresponds to number "5", allows the
20 viewing of all the favorite websites in the Internet explorer; the organizer icon 31, which corresponds to number "6" allows the user to organize and customize any content for each content page; the on-screen display icon 32, which corresponds to number "7", allows the user to
25 adjust parameters of the unit, e.g. microphone volume, magnifier and the like; the window display icon 33, which corresponds to number "8", allows the user to adjust in scalable display window or in full screen; and the help icon 34, which corresponds to number "9", is used to view
30 on-line help on the current open application. At the right most portion of the TTB is an address bar 34, which corresponds to the number "0", allows the user to surf the net by putting the address of the websites. If the user wishes to access files in the internet which do not

form part of the pre-selected files, he/she simply has to press "0" and type into the space provided beside the address icon his/her desired URL.

To use the computer system of the present invention,
5 the user will turn on the processing equipment and the display monitor. Immediately thereafter, the "TUI" will appear in the display means. By simply pressing the number corresponding to a particular digital file in the file organizer 14a, which runs for several pages. The
10 user may also press the pound sign "#" to activate the multi media key bar (MMK) 14d which will appear in the menu bar area 14c as shown in Figure 4, or press the asterisk sign "*" to activate the top task bar (TTB) 14e which will appear likewise in the menu bar area 14c as
15 shown in Figure 5. Thereafter, the user may press any number corresponding to a function in the multi media key bar (MMK) 14b and top task bar (TTB) to activate the particular desired function. For example, to add files into the organizer, the user will press the number
20 corresponding to the organizer icon in the top task bar (TTB), then press the number corresponding to either of the following functions: add, delete, import, export, etc.

The user may also opt to go to the internet to
25 access any digital file or URL which is not part of the pre-selected set. By pressing "0" which corresponds to the address icon 34 of the top task bar (TTB), and typing into the space provided beside the address icon 34 the desired URL, the desired webpage will appear on-screen in
30 the display means. Thereafter, all hyperlinks and functions in said web page will be automatically assigned a code or number. As such, the user can choose and access such links or functions in the web page by pressing the corresponding code or number. For the easy reference of

the user, the websites visited will be recorded and retrieved by using the dropdown menu and/or history. Each website appearing in the dropdown menu and/or history is again assigned a code or number. Thus, the user merely
5 has to press the number corresponding to the desired website to access the same.

While the invention has been described in detail with particular reference to the herein preferred embodiment thereof, it will be understood that variations and modifications can be effected within the spirit and
10 scope of the present invention.

CLAIMS

1. A method and a system for controlling,
15 navigating and managing data files, URLs and other file system objects in a computer system or appliances enhanced by a computer system using code-based commands comprising:

a processing equipment consisting of a main housing
20 connected to a main power switch, said main housing being provided with a user input, a program loaded into said housing, electronic control elements interconnected and integrated with said program on said main housing, with front panels being provided with output and input
25 connectors;

a centralized digital content menu system interface being integrated on said processing equipment, the centralized digital content menu interface using code-based commands consisting of codes with reference to
30 file system objects stored in current and specified locations on said processing equipment, wherein said file system objects are controlled, navigated and managed through said code-based commands;

a display monitor connected to said processing equipment; and

interface command means adapted to relay a desired file system object from said processing equipment by an on-screen display thereof on said display monitor using said code-based commands.

2. A computer system in accordance with claim 1, wherein the processing equipment is designed to be built over a middleware defined as a TV User Interface "TUI" which adopts the number-based interface of TV remote control.

3. A computer system in accordance with claim 1, wherein numbers define said code-based commands, called the Recursive Numbering Menu System.

4. A computer system in accordance with claim 1, wherein a combination of numbers, numbers and alphabets or numbers, alphabets and symbols, define said code-based commands.

5. A computer system in accordance with claims 1, 2 or 3, wherein said interface command means is any remote control device.

6. A computer system in accordance with claims 1, 2 or 3, wherein said interface command means is a wireless keyboard.

7. A computer system in accordance with claims 1, 2 or 3, wherein said interface command means is any device with a keypad.

8. A computer system in accordance with claims 1, 2 or 3, wherein said interface command means is voice activated.

9. A computer system in accordance with claims 1, 2 or 4 wherein said display monitor is a TV screen.

10. A computer system in accordance with claims 1, 2 or 4 wherein said display monitor is an LCD (Liquid Crystal Display) screen.

11. A computer system in accordance with claims 1, 2 or 4 wherein said display monitor is a PDA (Personal Digital Assistant).

12. A computer system in accordance with claims 1, 2 or 3, wherein application program is capable of commanding file system objects from said processing equipment and displaying on the screen of said display monitor the desired file system objects.

13. A computer system in accordance with claims 1, 2 or 3, wherein application program is capable of organizing file system objects, as well as adding or deleting file system objects in an organizer which functions as a portal.

14. A computer system in accordance with claim, 1, 2 or 3 wherein said file system objects consist of digital files, functions, hyperlinks and URLs.

15. A method in a computer system having a user, a processing system, a plurality of file system objects, each file system objects having a visual representation, the method for controlling, managing and navigating the whole digital contents of a computer system using number-based commands under the control of the processing system, the method comprising the steps of: the user will turn on the processing equipment and the display monitor. Immediately thereafter, the "TUI" will appear in the display means. "TUI" primarily functions as a portal containing the pre-selected digital files shown in the file organizer area 14a of the "TUI," each file corresponding to a particular number. The file organizer may comprise of several digital pages. Beside the file organizer is a video area and an information area. The

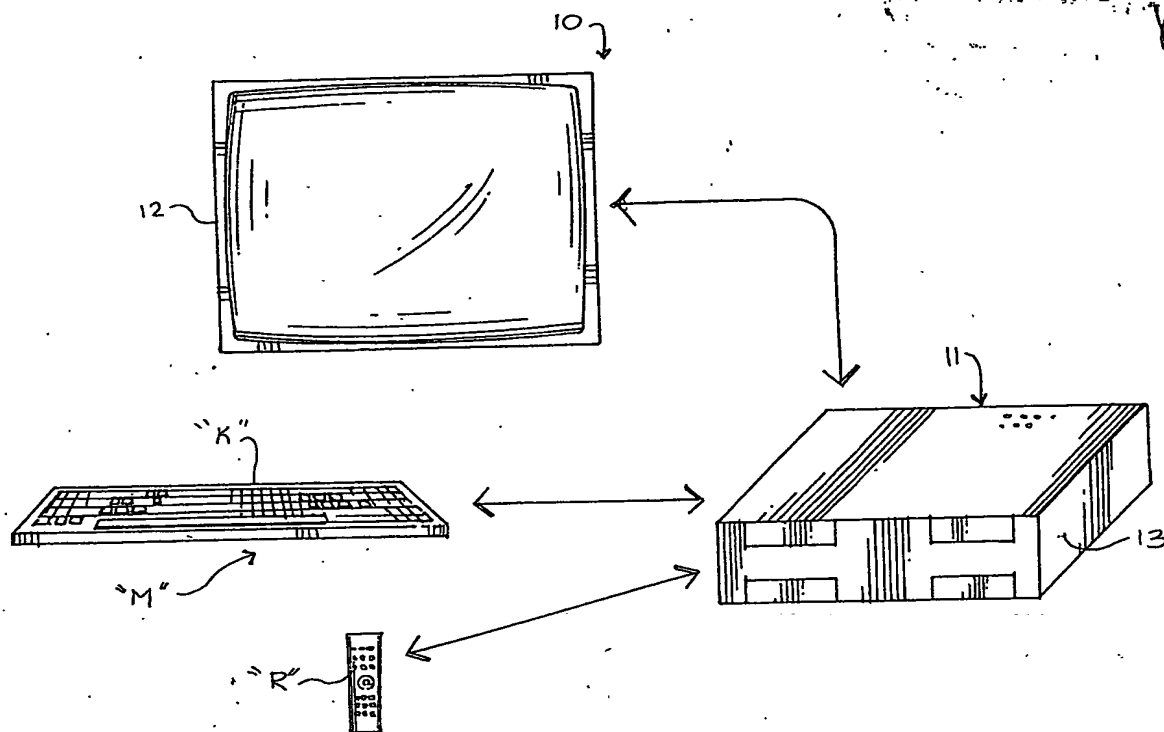
video area shows a preview of the files selected while the information area shows the detailed specifications of the said file. On the top portion of the "TUI" is a menu bar area. By pressing the pound sign "#," the multi media key bar (MMK) will appear, while pressing on the asterisk sign "*", the top task bar (TTB) will appear.

The user will simply press the number corresponding to a particular digital file in the file organizer, which runs for several pages. The user may also press the pound sign "#" to activate the multi media key bar (MMK) which will appear in the menu bar area as shown in Figure 4, or press the asterisk sign "*" to activate the top task bar (TTB) which will appear likewise in the menu bar area. Thereafter, the user may press any number corresponding to a function in the multi media key bar (MMK) and top task bar (TTB) to activate the particular desired function. The user may also opt to go to the internet to access any digital file or URL which is not part of the pre-selected set. By pressing "0" which corresponds to the address icon of the TTB, and typing into the space provided beside the address icon his/her desired URL, the desired webpage will appear on-screen in the display means. Thereafter, all hyperlinks and functions in said web page will be automatically assigned a code or number. As such, the user can choose and access such links or functions in the web page by pressing the corresponding code or number. For the easy reference of the user, the websites visited will be recorded and retrieved by using the drop down menu and/or history. Each website visited is again assigned a code or number. Thus, the user merely has to press the number corresponding to the desired website.

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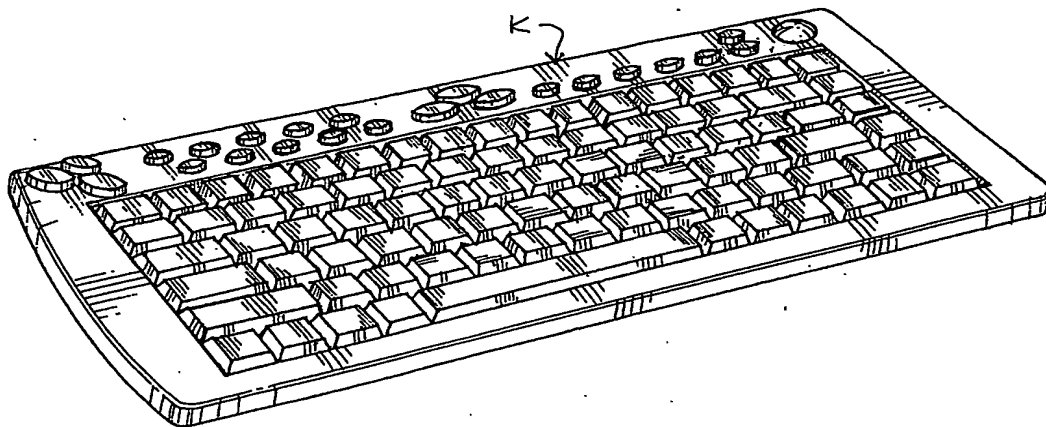


FIG. 2a

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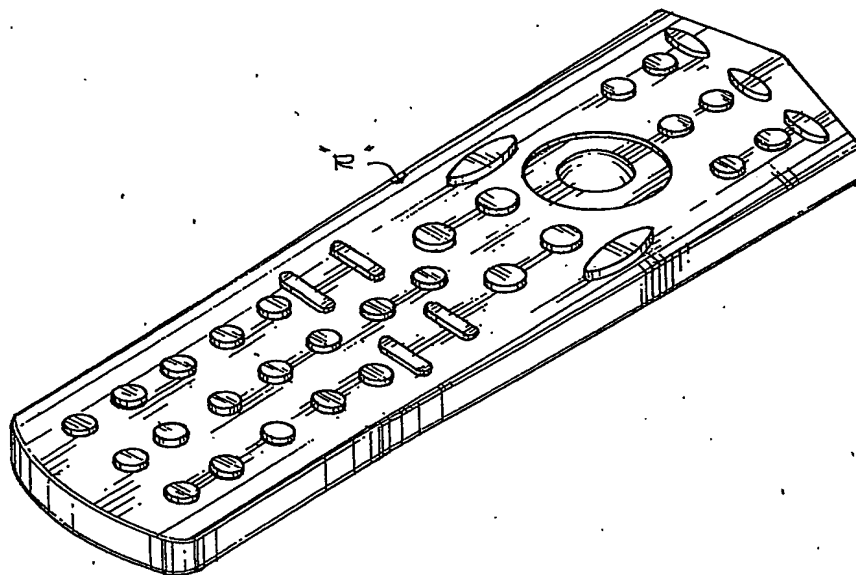


FIG. 2B

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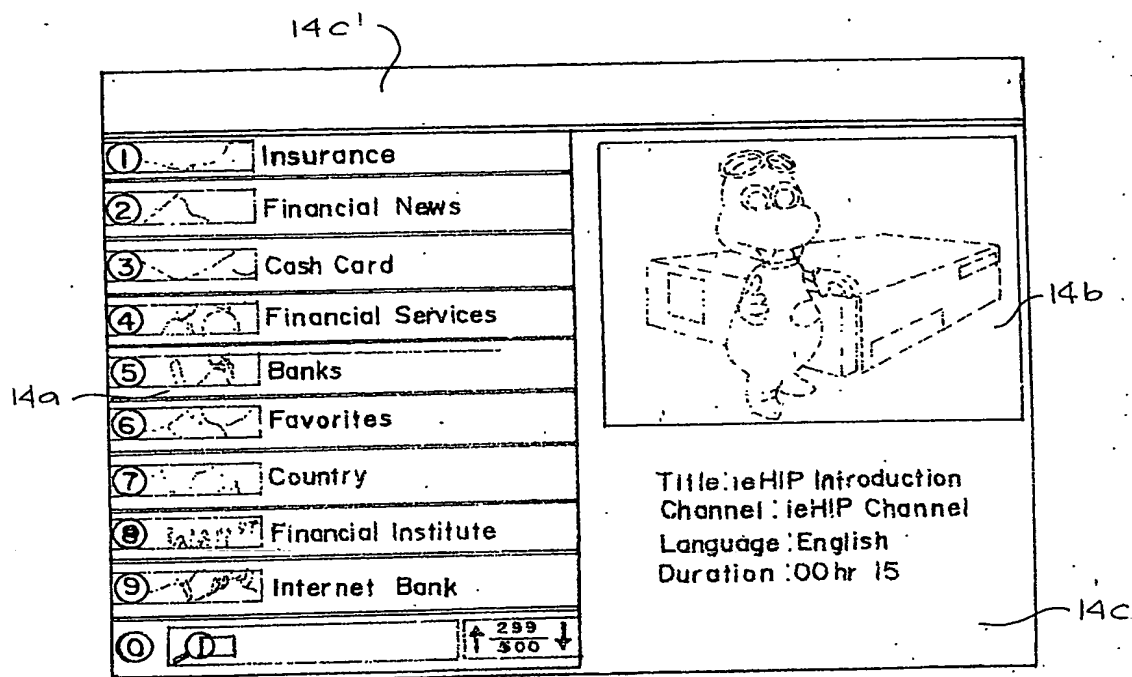
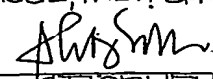


Fig. 3A

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ATTORNEY

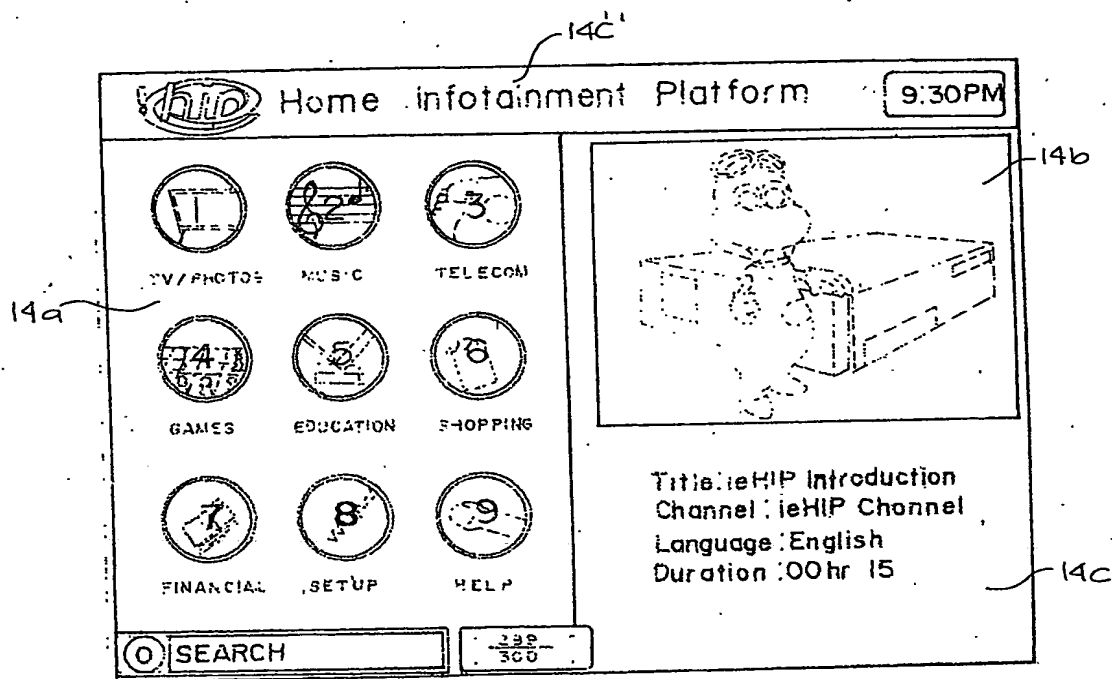
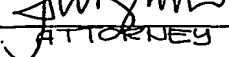


FIG. 3B

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BY 
ATTORNEY

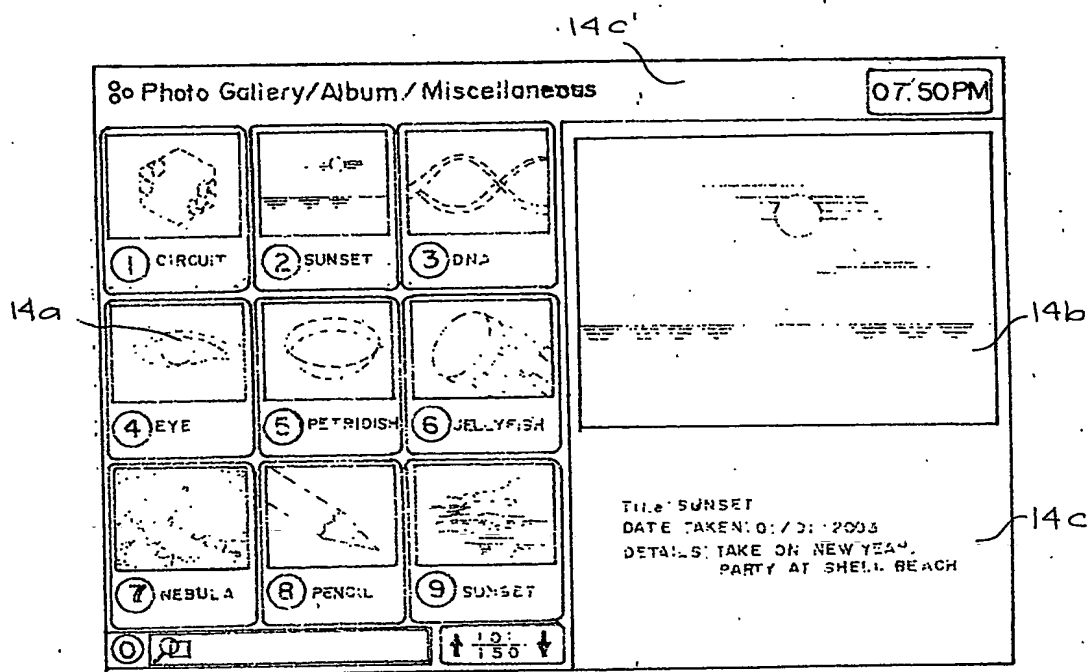


FIG. 3C

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BY John Smith
ATTORNEY

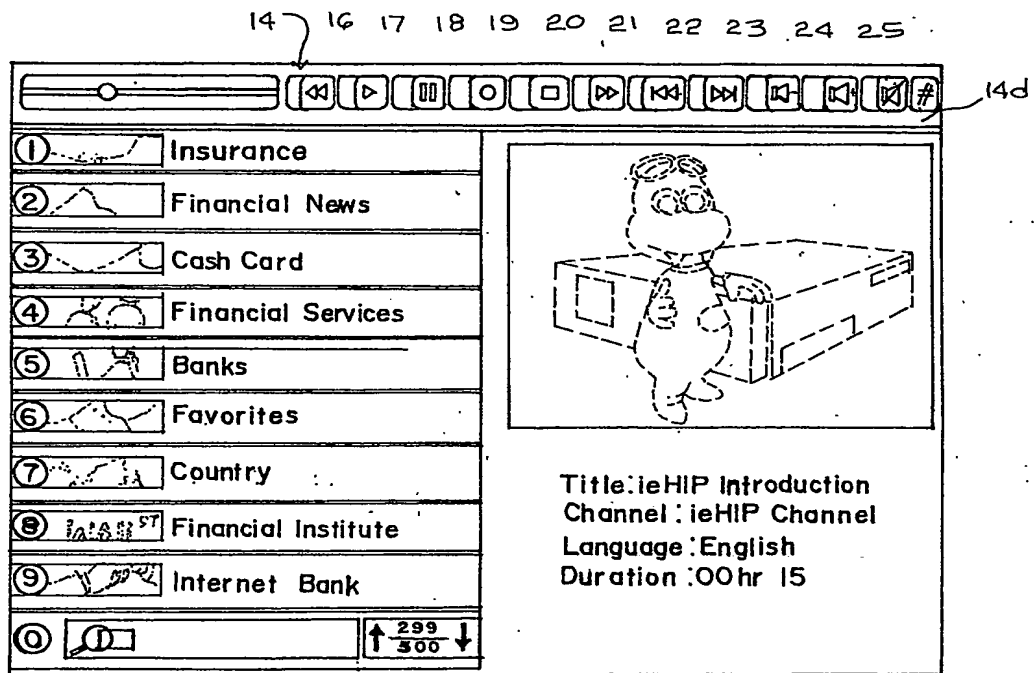


FIG. 4

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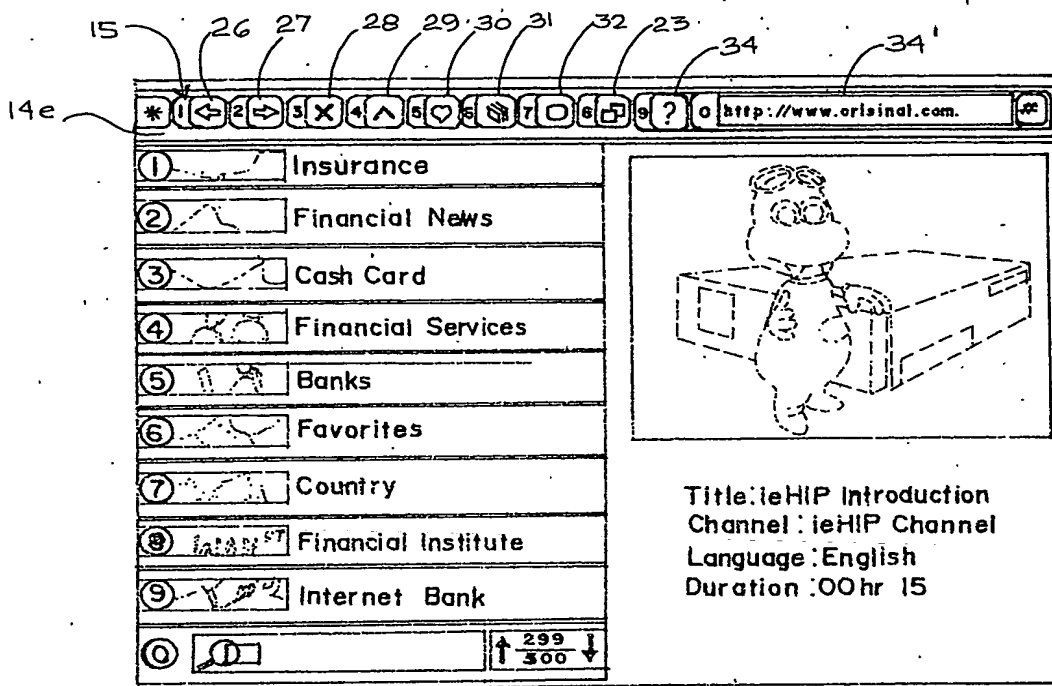


Fig. 5

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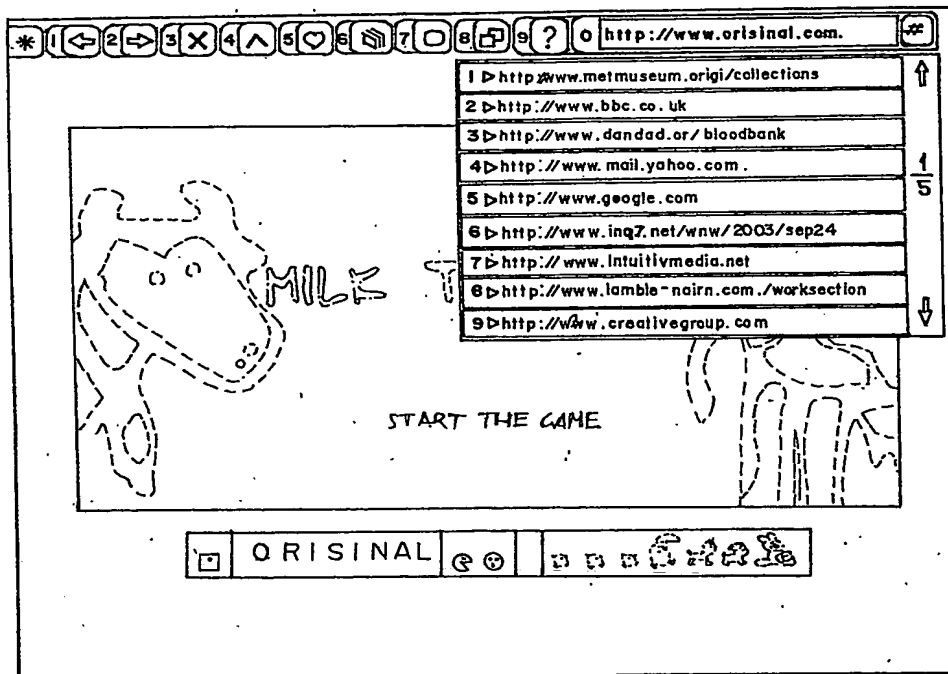


FIG. 6

TED Y. LEE
INVENTOR

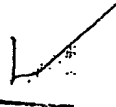
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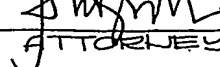
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YAHOO! SEARCH ENGINE

Fig. 7

TED Y. LEE
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